PD-AAJ-798
ISN 1389

24

511-0386402/53

QUARTERLY REPORT

CONTRACT

GOS/AID 511-53

RESEARCH ADVISOR, PROGRAM CHAIT/-IRI - SAN JULIAN

July 1, 1977 - October 14, 1977

Submitted by:

Harry Peacock

BEST AVAILABLE DOCUMENT

S U M M A R Y

	PAGE
A. Resume of Activities	
1. Settlement of colonists and preparation of infrastructure	1
2. Repair of D-8 Caterpillar tractor	2
3. Construction of Shop Facilities	2
4. Construction of Chané-Piray road	3
5. Visitors to the Project Area	3
6. Pre-Fabricated Buildings	4
7. Graphic Component	4
8. Technical Assistance in Agriculture	5
9. Well drilling equipment	5,6
B. Problems and Recommendation Activities	
1. Operation of the Gonzalez sawmill	7
2. Contracting Technical Personnel under USAID Host Government Contracts	8
3. Private Land Holdings	8
4. Deficiency in Transportation Equipment	9
5. Study of Areas Adjacent to the San Julian Project	10
6. Agricultural Investigation	11
7. Vehicle Maintenance	12
8. Water Supply in Nucleos	13
9. Obstructed Drainage Patterns	13
10. Construction of the All-weather Penetration Road - San Julian	14
11. Coordination between the INC Health services and Min. of Public Health Program	15
C. Projected Trips and Expenses	16,17,18
D. Proposed Activities	19
E. Appendix I	20
F. Appendix II	21

July 1 through [illegible], 1977

RESUME OF ACTIVITIES

1. Settlement of Colonists and Preparation of Infrastructure:

During the period under report the last two groups of colonists were settled in nucleos # 10 and # 20. This raised the total number of nucleos settles this year to eleven with every nucleo being settled according to schedule. Strict adherence to scheduling was made possible by the preparation of five nucleos during 1976, a procedure which is being repeated on an expanded scale for the settlements which will take place in 1978.

Currently there are eleven nucleos cleared, five of these with temporary structures completed and two with wells drilled. There is a total of 35 Kms. of lateral road constructed to give access to nucleos which will be settled in 1978. (See Appendix I). Almost 50% of this work was carried out during the month of July with delays being encountered in the months of August and September due to unpresidented rains. Between the 15th of August and the 12th of October 207 mm. of rainfall was registered at the Los Cafes station. The fractured pelvis of the chief mechanic and the second mechanic's loss of thumb and part of one finger during September also increased the difficulty of basic maintenance.

With the equipment that is actually functioning in the zone it can now be anticipated that its nucleos will be ready to receive colonists during the thirty day period of May 15th to June 15th, 1978. When rains force equipment to be displaced from the area of new settlements they will be moved to the area of Nucleos # 4, # 5, #6, #7, #8, and # 9. In the Nucleos nucleos lateral roads will be improved during the rainy season since support can be given to the heavy machines by way of the Rio Grande - San Julian road.

2. Repair of D - 6 Caterpillar Tractors (contract signed)

The contract signed between INC and Rolfe Co for the complete overhaul of four D-6 (cable type) Caterpillar tractors called for work to be done during the last 15 days of September. To date INC has not complied and the overhaul work has not begun. This delay places increased pressure on INC, but provided the repair work can be carried out during the rainy season it will still be possible to settle a total of 30 nucleos during 1978. /has it stated

3. Construction of Shop Facilities:

The construction of the steel beams for the maintenance shop has been completed with the assembly of the roof to take place by October 20th. The pouring of the concrete floor could be delayed by the severe shortage of cement, but the shop facility will be in use during the rainy season.

4. Construction of the Chané-Piray Road:

Work on the Chané-Piray road was officially inaugurated September 9th with the arrival of the SAE instructor. To date survey and clearing work along the road route has advanced to Km. 14. The road bed construction with compacted fill has advanced five kilometers. Steel tubing for culverts has arrived allowing the construction firm to begin this phase of their activity.

5. Visitors to the Project Area:

In addition to AID administrative staff, visitors to the zone during the last three months have included the following:

USAID - Rural Development Division; Juan Steer, Bastiaan Schouten, Daniel Chalj, Harry King.

USAID - Engineering Division; George Beaver and Andrés Tavel

USAID - Program Office; Richard Archi

USAID-Deputy Director; Charles Stackman

USAID - Legal Department; Charles Castelli

USAID - Capital Development Division; Robert Clark

El Salvador - Three person delegation

GAP - Gerente of Santa Cruz Departmental Office; Ing. Leos

GAC - Gerente of the Montero Regional Office; Ing. Padilla

GAS - Agent for San Julian area; Ing. Saavedra

GAJ - Agent for the Chané-Piray area; Ing. Quintana

In the city of Santa Cruz conferences were also held with representatives of the Montero Rural Health Program and with Dr. Thomas S. Schorr of the Panamerican Health Organization.

6. Pre-fabricated Buildings:

Twelve pre-fabricated utility buildings arrived in Santa Cruz during July with eight being transferred to the Cafao in San Julian and four being transferred to the future site of the Agricultural Service Center three Kms. north of San Pedro. Materials for the construction of four [illegible] have been supplied to the San Julian camp and two foundations are actually in place. Provisions have been made [illegible] Ing. Officer to assist in the [illegible] of the first unit and arrange [illegible] experienced [illegible] from a building company [illegible] training of an IAC crew in the assembly of these buildings. The persistent concern and aid of Ing. Pedro [illegible] has been a major factor in the advance of this aspect of the project.

In December Mr. Wilfred

7. Credit Component

During the first two weeks of October trips to the two project areas and repeated meeting with BAB officials has brought the Agricultural Credit componean of Loan 511 - T - 050 to the operational stage. It has been recommended by the BAB officials and the project advisor that for the current year loans under this program be restricted to Corn/Beans, Corn/ Legume forrage, or Corn/ pasture in hand cleared land in order to promote a progression toward continued use of hand cleared land rather than the traditional practice of allowing hand cleared land to return to second growth jungle after two to three years of cultivation. In the San Julian area a maximum of 500 Has. will be financed under

the program allowing loans up to [illegible] per Has. for the planting of Corn and Beans, [illegible] pasture. Given the limited area under cultivation by individual colonists in the San Julian zone it is recommended that no more than 2 Has. per farmer be financed. The loans will be administered in groups of 10 farmers or more in order to keep down the cost of processing the loan to each individual. (See Appendix II). In the Chané/Piray zone loans will be given for up to 10 Has. of Corn and Beans, [illegible] pasture. [illegible] will be provided for the planting of up to 10 Has. of [illegible] machine cleared land in conjunction with the [illegible] for land clearing and [illegible].

No!

6. Technical Assistance in Aquaculture:

Technical assistance in determining the feasibility of fish culture in the San Julian and other colonization zones was requested and approved. Special attention will be given to the advisability of leaving pits which could be used for fish production where fill is extracted for the road bed of the San Julian access road. Dr. Lenord Loveschin, Fortaleza, Brazil, is scheduled to arrive in Santa Cruz on October 15th.

8. Well Drilling Equipment:

The well drilling equipment which arrived in damaged condition has been repaired and will be ready to enter service as soon as appropriate compressor equipment is available.

The required compressor equipment should be powered by an independent power source, having the capability to clean a six inch well with a maximum depth of 150 meters and be mounted on a trailer. The ability of the compressor unity to function independently of the drilling equipment will speed up the well drilling operation as the drilling equipment will not be tied up during the eight to ten hours required for cleaning the well after the well has been cased. There is the additional advantage that wear on the drilling equipment will be reduced and the compressor unit can be taken to old wells for cleaning operations without the necessity of envolving the drill.

Is this under procurement now?

[illegible]

PROBLEMS AND RECOMMENDED ACTIVITIES

1. Operation of the COFADE A sawmill in the San Julian Project Area:

On page 10 of the report filed by the Project Advisor with concluding date June 30, 1967, the following observation was made:

> "In the area which would correspond to Nucleo # 24 the army sawmill under the auspices of COFADE.A continues to exploit lumber in the surrounding area. Although information from the Area office of colonization indicates that this question is being clarified with COFADE.A and the army intends to withdraw their operations from the area, the continued presence of the sawmill contributes to uncertainty on the part of colonists and indecision in regard to the opening of a lateral road into the projected nucleo site."

At the time of this reporting the above mentioned sawmill continues to operate. The construction into the project nucleo site has been opened, but tension regarding the situation has increased. Under the good effort on the part of the project Administrative Chief, Sgt. Morales, in attending to complaints from the colonists of the abuses by army personnel and truck drivers illegally contracted by COFADE.A, lateral access roads to nucleos as well as the principal penetration trail (Brecha Cacrovo) are being damaged by logging trucks using chains. This requires unscheduled utilization of equipment in road maintenance. If this activity is allowed to persist into the month of November damage to the access trail could require premature withdrawal of heavy equipment from the area.

RECOMMENDATION

A clear and specific order from the military authorities for the total abandonment of the San Julian colonization area by November 1 on the part of all COFADE.A personnel is necessary to prevent further delay in total development.

IS IT DONE?

2. Contracting [illegible] under USAID Host Government Contracts.

At the time of the original contracting of the Project Advisor and on the occasion of two subsequent contract renewals there has been a delay of two months (in each case) before the contracts were cleared through USAID offices. This pattern of lengthy delay in contracting procedures is not only an inconvinience to contracted personnel, but could be a major obstacle in the future contracting of foreign personnel in other projects. The major problem seems to reside in that USAID anticipates that Bolivian Government Agencies will take the initiative in development of contracts which must subsequently meet USAID guidelines.

RECOMENDATION:

Bolivian Government agencies which will be responsible for employment of personnel under the Host Government arrangement should request a complete and clear procedure for the development of such contracts from USAID.

Note: In the opinion of the Project Advisor the Host Government Contract provides positive working relationships; it is not the type of contract, but the contracting procedure which is held in question.

3. Private Land holdings in the San Julian Colonization Zone.

Conditions reported in the Project Advisor's previous report persist. (pages 9 - 12 and Annexes [illegible]) and major obstacle

In dealing with this problem [illegible] in the contracting of qualified surveyors. The IMC has since the last reporting contracted one surveyor. He continues to solicit applications of additional personnel. The Advisor has given personal attention to [illegible] scouting for potential surveyors and can testify that contracting the needed number of persons for this activity is no simple matter. While there has been a delay in acquiring needed equipment, the Director of the IMC has supplied sufficient equipment from other rehabilitation [illegible] to equip available personnel.

RECOMMENDATION

The possibility should be investigated of temporary assignment of sur[illegible] the Division of Education [illegible] to the IMC. Existing efforts for acquiring equipment and personnel should be continued.

4. Deficiency in Transportation Equipment

The pick-up trucks and motorcycles [illegible] from the project have not been delivered to the project zone. This continued delay affects directly the logistical support of heavy equipment which is now operating 60 [illegible] from the base camp base, GAD activities in displacement of Indians to colonists, agricultural extension efforts, and surveying activities.

RECOMMENDATION

Persistent attention should be given to carrying out whatever activities might facilitate the earliest possible delivery of the transportation equipment.

INC action
[illegible]
[illegible]
[illegible]

Where is the equip?

5. Study of areas adjacent to the San Julian Project.

Experience indicates that as colonization fills land areas projected for settlement, the flow of colonists continues to push into adjacent areas in a spontaneous fashion unless there are obvious obstacles to prevent such expansion. This has been demonstrated in expansion up and down the Yapacaní river extending out from the Yapacaní colony, expansion into the Chore forest reserve from the Cotoca-Pirai colony; expansion of the Cuatro Ojitos colony into the Cuatí-Piray area and colonization of the Suretí area following settlement of the Huayhí colony, not to speak of the experiences in the Chapare and the Alto Beni. Whether the Cochabamba-Santa Cruz road and the San Julian project are to be opened for colonization in a semi-directed fashion, allowed to be colonized in a haphazard manner or whether efforts should be made to restrict spontaneous colonization, it is important to assess existing knowledge concerning the relative appropriateness of these areas for permanent human settlement.

Preliminary observations on the part of the Project Advisor as well as second hand information indicate that problems in settlement of the area between the two roads - San Julian road and the Santa Cruz - Cochabamba railway revolve primarily around the dryness of the area and constitute more than anything else an agronomic problem. In the northeast climatic problem is high rainfall and poor drainage, constituting not only agronomic questions, but also bringing into question health hazards which might exist in settlement in these areas. In both cases the appropriateness of current colonization strategies is doubtful.

RECOMMENDATIONS

A. Work should be begun immediately to establish a listing of privately owned properties which are currently registered in the above [illegible] and areas.

B. Aerial photography of the San Julian Colonization Area should include the areas under consideration.

C. Ground reconnaissance should be carried out in both areas during 1977 -1978.

D. Contact should be made with the Country Representative of Pan American Health Organization, Dr. Guadalupe Pineda, concerning the essential contribution to a detailed study of these areas which might be made by the Centro Panamericano de Fiebre Aftosa, Argentina.

E. Agricultural Investigation and Development in Colonization Zones.

Dr. Charles [illegible], co-director of the agricultural experimental station at Sarmiento has requested consideration of agricultural problems which might be [illegible] at the center where he shares administrative responsibility. Consultation with INC and other agricultural personnel has produced the following recommendations for investigation which could benefit small farmers in the colonization zones of Chubut, Río Negro and San Julián.

(1) Pasture combinations which could meet multiple goals of a) weight gain in cattle, b) control of undesirable vegetation c) improvement in soil fertility.

(2) Multiple cropping practices - variety combinations, harvesting and cultivation [illegible].

Is this more? Funding?

?

INC should request this thru their channels -

GEECOL
$30,000 - pilot
30,000 - [illegible] interpretation
60,000

C. Crop rotation schedules which allow for continuous cropping and minimize fertility decline, loss of infestations, plant diseases, and which prevent weed control.

D. Combinations of plant species compatible for use in wind breaks which would be applicable to the various micro climates, drainage patterns and soil types encountered in the colonization areas.

Is there a lot of wind?

E. Organic and the least control of insects in the labor intensive farm production.

F. Irrigation, and storage of grain crops from plots of 10hms. or less.

G. Varieties of corn, beans, soy beans, peanut, rice, and wheat good with resistance to diseases and known to exist in the area.

7. Vehicle Maintenance

Most vehicles of [illegible] manufacture are currently arriving with dry type air filter elements. These filter systems have not proven effective in the project and are exceptionally fine. Most vehicles consist of up to 20 ex. [illegible] and trails lacking heavy duty.

Also, replacement elements for the present 1976 and 1977 models are not currently available in most cases.

Can this be done?

Recommendation:

Project vehicles with dry type air filters should be converted as soon as possible to oil bath filter systems.

8. Water Supply in Vehicles:

During the period under review, the wells providing the only

source of drinking water for new colonies of the two nucleos concerned [illegible] potable water. In one case where an excessively high concentration of magnesium was the problem the casing was extracted and a new well was drilled which tapped a different strata of interbedding sands. In the second case where contamination was the problem, casing treatment was recommended.

RECONDITIONING.

Water wells should be tested prior to the arrival of colonists and four months after their arrival. In the case of excessive cases of diarrhea or other sickness of epidemic proportion which could be attributed to water source, immediate testing of the wells should be carried out by IAC health personnel. This testing is being done [illegible] laboratory in Santa Cruz. For bacteriological testing water samples must be taken in sterile containers and delivered to the laboratory in less than 24 hours.

9. Obstructed Drainage Patterns:

Septembe[illegible] rains demonstrated that the lateral road between nucleos [illegible] 12 and nucleo [illegible] 14 runs perpendicular to the natural drainage pattern of the land and acts as a dike. More intensive rains can expect to show up similar problems with respect to lateral roads from central areas road into Nucleos 10, 15, 16, 20, 22 and 25.

RECOMMENDATIONS

Will it be done?

In most cases it is felt that the problem can be remedied with small locally constructed culverts at appropriate points along the lateral roads. Mangui logs which are highly decay

resistant are available in the project area and would be suitable for the constructions. Given minimal technical advice the constructions can be carried out by community organized work teams. however, transport of the construction material should be provided by the INC. During the rainy season colonists should be encouraged to establish those points where construction of rustic bridges will be advisable.

10. Construction of the All-weather Penetration Road - San Julian

--Item 10 of the previous report -- June 30, 1977

"Delays in initiation of construction of the all-weather penetration road into the project area will result in the withdrawal of heavy equipment at the outset of the rainy season in 1977. In addition there will be increased delays in returning the equipment to the project area during the beginning of 1978 season. It is estimated that the delays in construction of all-weather access in to the project area will be reflected in a loss of at least two months work time for INC heavy equipment."

RECORRE action

"In order to minimize the delay in return of heavy equipment to the project area following the 1977/1978 rainy season, it is suggested that the construction company responsible for construction of the San Julian penetration road begin their activities with the installation of culverts at those points where flowing streams inhibit movement over the access road. Consultation with Ali engineer Tavel indicates that such a procedure is feasible."

Action taken?

11. Coordination between the INC Health Services and Ministry of Public Health Centro Rural Health program.

Consultation has taken place between the Project Advisor, the Project Coordinator and Montero Rural Health Program staff. The program actually being recommended by the INC chief health services, following the World Health Organization guidelines very closely resembles the activities of the Montero Rural Health Program which are being carried out in other areas north and west of Montero.

There has been indicated on the part of the Ministry of Health personnel a willingness to accept responsibilities on a limited but expanding basis in the San Julian colonization zone, allowing the INC to concentrate their resources on those aspects of Health services which do not fall within the scope of work of the Ministry of Public Health (examination of colonists prior to arrival in the colonization zone, vaccination of colonists upon arrival in the zone, provision of health education and basic health services during the first year of settlement).

RECOMMENDATIONS:

In order to provide for maximum utilization of available health resources it is advisable that at the earliest possible date Dr. Wilfredo Kippes, Chief of the Medical Department of INC visit Santa Cruz for a period of time that would allow him to meet with Montero Rural Health Project Staff and invite personal from the Ministry of Public Health to accompany him in an inspection and planning trip to the San Julian colonization zone.

2 - Action

Projected Trips and Expenses

October, 1977

Date	Place	Mode of Travel	Cost	Per Diem
1. Sat.				
2. Sun.				
3.	Santa Cruz	Official		
4.	Montero			
5.	San Julian	Official		$ 9.00
6.	San Julian	Official		18.00
7.	San Julian	Official		18.00
8. Sat.				
9. Sun.				
10.	Santa Cruz	Official		
11.	Montero			
12.	San Pedro	Official		9.00
13.	San Julian	Official		18.00
14.	San Julian	Official		18.00
15. Sat.				
16. Sun.				
17	Santa Cruz	Official		
18.	Montero			
19.	San Pedro	Official		9.00
20.	San Julian	Official		18.00
21.	San Julian	Official		18.00
22. Sat.				
23. Sun.				
24.	Santa Cruz	Official		
25.	Montero			
26.	San Pedro	Official		9.00
27.	San Julian	Official		18.00
28.	San Julian	Official		18.00
29. Sat.				
30. Sun.				
31.	Santa Cruz	Official		
		TOTAL	$	180.00

PROJECTED TRIPS AND EXPENSES

November, 1977

Date		Place	Mode of Travel	Cost	Per Diem
1		La Paz	LAB	$ 35.00	$ 32.00
2		La Paz			32.00
3		Alto Beni	Official		18.00
4		Alto Beni	Official		18.00
5		Alto Beni	Official		18.00
6		La Paz			32.00
7		La Paz			32.00
8		Santa Cruz	LAB	35.00	18.00
9.		Montero			
10		Montero			
11		San Pedro	Official		18.00
12	Sat.				
13	Sun.				
14		Santa Cruz	Official		
15		Montero			
16		San Pedro	Official		9.00
17		San Julian	Official		18.00
18		San Pedro	Official		18.00
19					
20	Sat.				
21	Sun.				
22		Santa Cruz	Official		
23		Montero			
24		San Pedro	Official		9.00
25		San Julian	Official		18.00
26		San Julian	Official		18.00
27	Sat.				
28	Sun.				
29		Santa Cruz	Official		
30		Montero			
			TOTALS	$ 70.00	$ 308.00

Purpose?

PROJECTED TRIPS AND EXPENSES

December, 1977

Date	Place	Mode of Travel	Cost	Per Diem
1	Santa Cruz	Official		
2	San Pedro	Official		$ 9.00
3	San Julian	Official		18.00
4	San Julian	Official		18.00
5	San Julian	Official		18.00
6 Sun.				
7	USA	AIR TRANSPORT	$ 7.000	None

December 7 - January 6 USA or anual vacation.

Travel to and from the USA with family as contemplated in contract.

PROPOSED ACTIVITIES FOR THE MONTHS OF OCTOBER, NOVEMBER AND DECEMBER, 1977

Preparation of Quarterly Report (October)

Receive official visitors in the zone and assist according to the requirements of thesituation (October and November)

Work with ARD personel in orientation of Field Agents (October)

Participate in planning of activities relating to implementation of GOG-AID credit program (October)

Assist in planning of activities to be carried out during 1978 in the Chané-Piray agricultural service center (November)

Visits to San Julian and Chané-Piray to assist in the organization of local Credit Committees (October and November)

Accompany Technical Advisor in Aquaculture (October and November)

Meet with INC and Min. of Public Health in planning of coordinated health activities (November)

Attend regular meetings of the United Church Committee (October and November)

Work with the INC Department of Social Promotion in preparation of material for enrollment of new colonists (November)

Participate in planning of Orientation Activities with personel from INC and United Church Committee (November)

Anual Vacation (December).

Actividades propuestas para los meses de octubre
noviembre y diciembre de 1977

Preparación del informe trimestral (octubre)

Recibir visitas oficiales en la zona y ayudar de acuerdo a las necesidades de la situación (octubre y noviembre)

Trabajar con el personal del BAC en la orientación de los agentes regionales (octubre)

Participar en el planeamiento de actividades con relación a la implementación del programa crediticio BAC-AID (octubre)

Colaborar en el planeamiento de actividades que se realizarán durante 1978 en el centro de servicio agrícola Chané-Piray (noviembre)

Visitas a San Julian y Chané-Piray para colaborar en la organización de Comités locales de Crédito (octubre y noviembre)

Acompañar al técnico en cultivos acuáticos (octubre y noviembre)

Reunión con los del INC y el Ministerio de Salud Pública para planear actividades coordinadas de salud (noviembre)

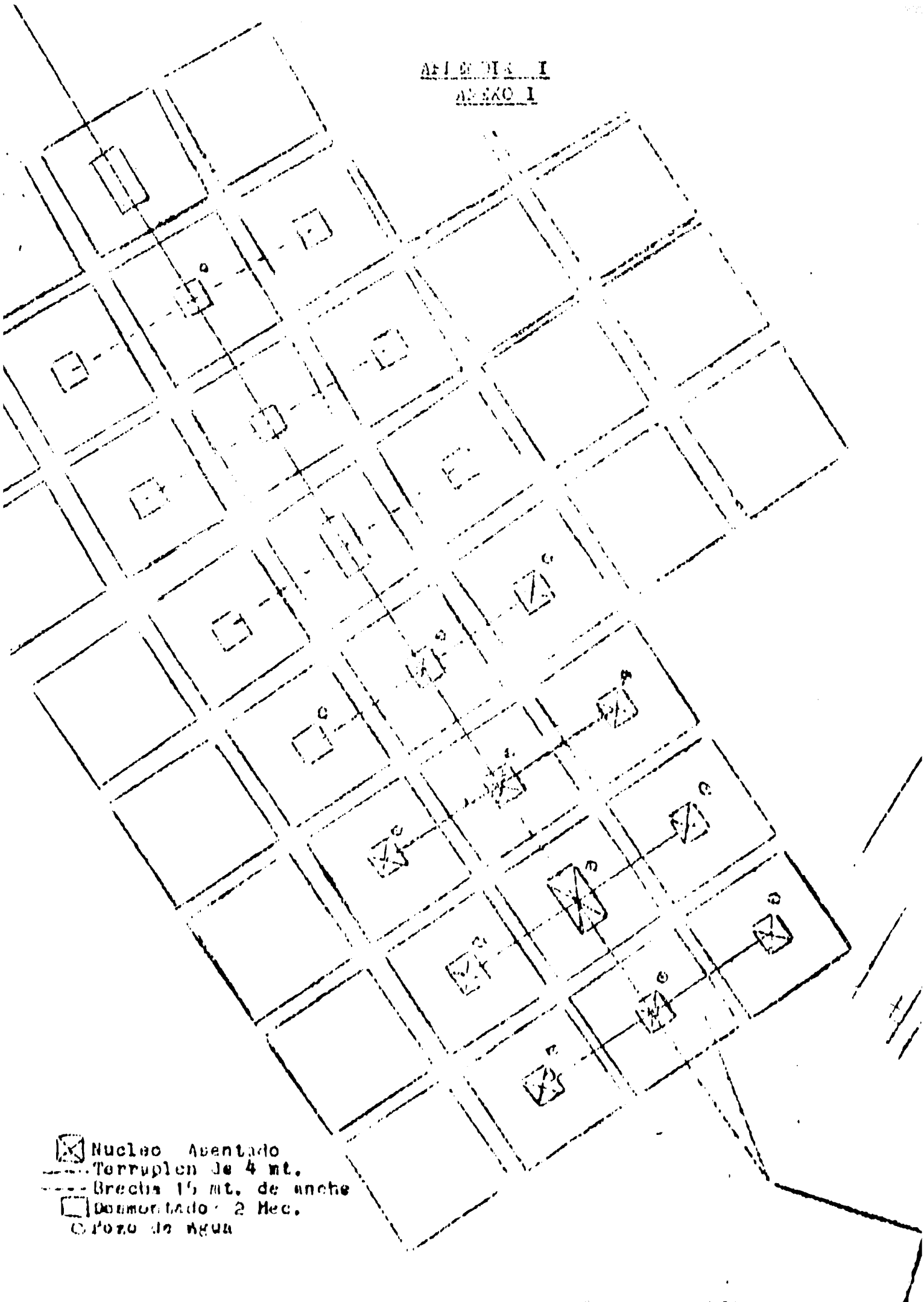
Asistir a las reuniones regulares del Comité de Iglesias Unidas (octubre y noviembre)

Trabajar con el departamento de Promoción Social del INC para la preparación de material para la inscripción de nuevos colonos (noviembre)

Participar en el planeamiento de las Actividades de Orientación con el personal del INC y el Comité de Iglesias Unidas(noviembre)

Vacación anual (diciembre)

ANEXO I


Nucleo Asentado
Terraplen de 4 mt.
Brecha 15 mt. de anche
Desmontado 2 Hec.
Pozo de Agua